DYES FOR COTTON AND SILK

NATIONAL ANILINE & CHEMICAL CO.
INCORPORATED
NEW YORK

Dyes For Cotton and Silk Mixed Goods

NATIONAL ANILINE & CHEMICAL COMPANY, INC.

Executive Offices: 40 RECTOR STREET, NEW YORK

BRANCH OFFICES:

BOSTON—113 High Street
CHARLOTTE—201-203 W. First Street
CHICAGO—111 West Washington Street
HARTFORD—750 Main Street
MONTREAL—1070 Bleury Street
PHILADELPHIA—653 N. Broad Street
PROVIDENCE—28 N. Main Street
SAN FRANCISCO—145 Second Street
TORONTO—204-206 King Street, East

Plant
BUFFALO, N. Y.

In this card is shown a series of single bath dyeings on Silk and Cotton Piece-Goods, which illustrates the behavior of National Direct and Acid Dyes toward goods composed of those two fibres.

The individual dyes are shown in three groups:

I. Direct Dyes which dye both fibres.

II. Direct Dyes which dye only the cotton.

III. Acid Dyes which dye silk in a neutral bath.

In addition to the above, dyeings are shown on which dyes of the above groups have been used in combination for the production of solid shades and two-tone effects.

DIRECTIONS FOR DYEING COTTON AND SILK PIECE-GOODS IN ONE BATH

All percentages given below are based on the weight of the goods to be dyed.

For Solid Shades and Two-tone Effects (Patterns 1 to 20 and 61 to 100 incl.)

Prepare the dye-bath with the requisite amount of dye and

10 to 40% Glauber's Salt Crystals.

Enter the boiled-off goods at 120° F., raise the temperature gradually to 190° F., and dye to shade.

To Dye the Cotton Leaving the Silk Clear (Patterns 21 to 39 incl.)

Prepare the dye-bath with the requisite amount of dye and

10 to 40% Glauber's Salt Crystals
2% Soda Ash
10% Soap

Enter the boiled-off goods at 120° F., raise the temperature gradually to 190° F., and dye to shade. For light shades a temperature of not over 150° F. is recommended.

Diazotizing and Developing (Patterns 20 and 39)

Run the material, previously dyed by the appropriate method, for 20 minutes in a cold diazotizing bath prepared with

2½% Sodium Nitrite
5% Sulfuric Acid 66° Bé (168° Tw.).

or

2½% Sodium Nitrite
7½% Hydrochloric Acid 32° Tw.

Rinse lightly, and run for 20 minutes in a cold developing bath prepared with

1% National Developer DB
½% Soda Ash.

Rinse well.

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To Dye National Sulfur Black BG Extra Conc. (Pattern 40)

For 100 lb. of goods.

Dissolve

25 lb. National Sulfur Black BG Extra Conc. 100%
15 lb. Sodium Sulfide Conc.
5 lb. Soda Ash

in 95 gals. of water, by boiling.

Then add 100 lbs. sheet glue previously soaked and dissolved in hot water, 100 lbs. Glauber's Salt Crystals, and make up to 310 gals. with water. Enter the goods at 100° F., and dye in the gradually cooling bath for 1 hour. Squeeze, rinse and dry.

NOTE: The neutral dyeing Acid Dyes (Patterns 41 to 60 incl.) shown in this card were dyed by the method given for solid shades and two-tone effects. If it is desired to dye the silk leaving the cotton clear, about 5% of Acetic Acid should be used.

The statements made herein with respect to our several products are expressions of our opinion based upon careful tests and investigation and are not warranted.

FORMULAS

No. 61.
1% National Erie Yellow F
1% National Azo Yellow A5W

No. 62.
0.48% National Erie Brown CN
0.60% National Erie Fast Yellow WB
0.24% National Erie Black GXOO
0.48% National Croceine Orange Y Conc.

No. 63.
1.0% National Erie Fast Scarlet YA
0.5% National Croceine Scarlet MOO

No. 64.
0.50% National Erie Violet 3R
0.04% National Wool Violet 4BN

No. 65.
1.260% National Erie Brown CN
0.870% National Erie Black GXOO
0.600% National Erie Garnet B
0.100% National Fast Red S Conc.
0.002% National Azo Yellow A5W
0.200% National Durol Black B

No. 66.
1.00% National Niagara Sky Blue 6B
0.20% National Alphazurine A
0.05% National Wool Violet 4BN

No. 67.
1.44% National Erie Brown CN
0.32% National Erie Black GXOO
0.48% National Croceine Orange Y Conc.

No. 68.
1.0% National Erie Violet 2B
0.3% National Wool Violet 4BN

No. 69.
0.630% National Erie Fast Gray M
0.095% National Erie Fast Brown GR
0.200% National Durol Black B
0.045% National Azo Yellow A5W
0.030% National Fast Red S Conc.

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No. 70.
1.288% National Niagara Blue 3B
0.308% National Erie Green MT
0.616% National Erie Black GXOO
0.762% National Diazine Black H Extra

No. 71.
0.25% National Niagara Sky Blue 6B
1.00% National Erie Flavine S
0.40% National Alphazurine A

No. 72.
0.60% National Erie Scarlet B
0.60% National Erie Fast Scarlet 4BA
0.80% National Fast Red S Conc.

No. 73.
0.325% National Erie Violet 2B
0.175% National Wool Violet 4BN

No. 74.
0.35% National Solantine Red 8BLN
0.50% National Fast Red S Conc.

No. 75.
0.45% National Niagara Blue RW
0.55% National Niagara Blue HW

No. 76.
1.192% National Niagara Blue 2B
0.268% National Diazine Black H Extra
0.270% National Fast Wool Cyanone 3R
0.270% National Durol Black B

No. 77.
1.22% National Erie Fast Scarlet 4BA
0.08% National Diazine Black H Extra
0.70% National Fast Red S Conc.

No. 78.
0.055% National Erie Black GXOO
0.015% National Erie Yellow F
0.020% National Erie Brown CN
0.017% National Erie Fast Brown 3RB
0.031% National Fast Wool Cyanone 3R
0.035% National Azo Yellow A5W
0.023% National Fast Red S Conc.

No. 79.
1.00% National Niagara Sky Blue
0.20% National Fast Acid Green B
0.08% National Wool Violet 4BN
0.16% National Buffalo Black AR

No. 80.	0.975%	National Erie Black GXOO
	1.350%	National Erie Brown CN
	0.300%	National Erie Fast Yellow WB
	0.045%	National Erie Red 4B
	0.038%	National Cloth Red B
No. 81.	2.0%	National Erie Fast Orange CG
	1.0%	National Fast Acid Green B
No. 82.	1.8%	National Erie Yellow F
	1.2%	National Fast Red S Conc.
No. 83.	1.0%	National Niagara Sky Blue
	0.5%	National Croceine Scarlet MOO
No. 84.	0.40%	National Fast Acid Green B
	0.40%	National Wool Violet 4BN
	1.20%	National Erie Yellow F
No. 85.	0.5%	National Azo Yellow A5W
	0.5%	National Alphazurine A
	1.0%	National Solantine Red 8BLN
No. 86.	1.0%	National Erie Fast Scarlet 8BA
	0.1%	National Diazine Black H Extra
	0.4%	National Wool Violet 4BN
	0.5%	National Fast Acid Green B
No. 87.	1.8%	National Diazine Black H Extra
	1.2%	National Azo Yellow A5W
No. 88.	1.2%	National Erie Yellow F
	0.8%	National Wool Violet 4BN
No. 89.	0.46%	National Fast Red S Conc.
	1.54%	National Diazine Black H Extra
No. 90.	0.6%	National Erie Yellow F
	0.6%	National Niagara Sky Blue
	0.8%	National Brilliant Wool Blue B
No. 91.	1.0%	National Brilliant Wool Blue B
	1.5%	National Erie Fast Orange CG

No. 92.	0.910%	National Niagara Blue 3B
	0.545%	National Erie Fast Yellow WB
	0.472%	National Azo Yellow A5W
	0.073%	National Fast Red S Conc.
No. 93.	1.5%	National Niagara Blue 2B
	1.5%	National Croceine Orange Y Conc.
No. 94.	1.8%	National Erie Fast Scarlet YA
	1.2%	National Fast Wool Cyanone R
No. 95.	0.75%	National Niagara Sky Blue
	0.75%	National Erie Yellow F
	0.50%	National Wool Violet 4BN
No. 96.	1.0%	National Solantine Red 8BLN
	0.5%	National Brilliant Wool Blue B
No. 97.	1.80%	National Erie Yellow F
	0.15%	National Erie Garnet B
	1.05%	National Fast Wool Cyanone R
No. 98.	1.5%	National Solantine Blue 4GL
	0.3%	National Fast Acid Green B
	0.6%	National Azo Yellow A5W
No. 99.	0.923%	National Niagara Sky Blue
	0.462%	National Erie Yellow F
	0.307%	National Croceine Scarlet MOO
	0.308%	National Fast Red S Conc.
No. 100.	1.0%	National Solantine Red 8BLN
	1.5%	National Fast Acid Green B

1. 1% National Erie Yellow Y		11. ½% National Erie Pink 2B	
2. 2% National Erie Fast Yellow WB		12. 1% National Erie Fast Red FD	
3. 2% National Erie Orange Y		13. 2% National Erie Garnet B	
4. 2% National Erie Fast Orange A		14. 2% National Niagara Blue HW	
5. 2% National Erie Brown 3GN		15. 2% National Niagara Blue RW	
6. 2% National Erie Fast Brown GR		16. ¼% National Solantine Black L	
7. 2% National Erie Fast Brown 3RB		17. 2% National Erie Green MT	
8. 2% National Erie Brown GB		18. 5% National Erie Black B Extra	
9. 2% National Erie Red 4B		19. 5% National Erie Black GXOO	
10. 2% National Erie Scarlet B		20. 12% National Diazine Black V with National Developer DB	

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21. 3% National Erie Yellow F		31. ½% National Niagara Sky Blue	
22. 3% National Erie Fast Orange CG		32. ½% National Solantine Blue 4GL	
23. 1% National Erie Fast Scarlet YA		33. 2% National Niagara Sky Blue 6B	
24. 1% National Erie Fast Scarlet 4BA		34. 1% National Niagara Fast Blue RL	
25. 1% National Erie Fast Scarlet 8BA		35. 3% National Niagara Blue 2B	
26. 1% National Solantine Red 8BLN		36. ½% National Erie Black NR Extra	
27. 0.2% National Erie Violet 2B 0.2% National Solantine Red 8BLN		37. 3% National Diazine Black H Extra	
28. 0.2% National Erie Violet 2B		38. 3% National Diazine Black OB	
29. 1.35% National Erie Fast Orange CG 0.75% National Solantine Red 8BLN 0.90% National Solantine Blue 4GL		39. 3% National Diazine Black H Extra with National Developer DB	
30. 1.8% National Solantine Blue 4GL 1.2% National Erie Yellow F		40. National Sulfur Black BG Extra Conc.	

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41. ½% National Azo Yellow A5W		51. 1% National Cloth Red R	
42. ½% National Metanil Yellow 1955		52. 2% National Azo Bordeaux	
43. 1% National Croceine Orange Y Conc.		53. 1% National Alphazurine A	
44. 1% National Wool Orange A Conc.		54. 1% National Brilliant Wool Blue B	
45. 1% National Croceine Scarlet MOO		55. 1% National Alkali Fast Green 2G	
46. 1% National Wool Scarlet BR		56. 1% National Fast Acid Green B	
47. 1% National Cloth Red 2R		57. 1% National Fast Wool Cyanone R	
48. 1% National Fast Red S Conc.		58. 1% National Fast Wool Cyanone 3R	
49 1% National Cloth Red B		59. 3% National Durol Black 2B	
50. 1% National Wool Violet 4BN		60. 3% National Durol Black B	

NATIONAL ANILINE & CHEMICAL CO., Inc.

J. Lemuel Taylor

NATIONAL DYES

National Service

THE National Aniline & Chemical Company, Inc., is convinced that the essence of all good-will is intelligent service.

In accordance with this conviction, the National Aniline & Chemical Company, Inc., maintains a fully equipped laboratory, a trained technical staff, and an experienced sales organization at each branch office. This practical dyeing service is freely placed at the disposal of its customers for the matching of shades and for assistance in the solution of dyeing problems.

Shade cards, illustrating the application of National Dyes on all classes of materials are prepared and distributed to those interested in dyeing.

The improvement of dyeing technique is the key-note of National Service.

NATIONAL DYES

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